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APPLICATION NO.	FII	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/558,237	09/558,237 04/24/2000		Chae-Man Lim	678-475 (P9174)	8647
28249	7590 12/21/2004			EXAMINER	
,		RRESE, LLP	HARPER, KEVIN C		
333 EARLÉ OVINGTON BLVD. UNIONDALE, NY 11553				ART UNIT	PAPER NUMBER
				2666	

DATE MAILED: 12/21/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)			
	09/558,237	LIM, CHAE-MAN			
Office Action Summar	Y Examiner	Art Unit			
	Kevin C. Harper	2666			
The MAILING DATE of this con Period for Reply	nmunication appears on the cover sheet	with the correspondence address			
THE MAILING DATE OF THIS COMI - Extensions of time may be available under the pro- after SIX (6) MONTHS from the mailing date of thi - If the period for reply specified above is less than to If NO period for reply is specified above, the maximum - Failure to reply within the set or extended period for	visions of 37 CFR 1.136(a). In no event, however, may s communication. thirty (30) days, a reply within the statutory minimum of t num statutory period will apply and will expire SIX (6) M or reply will, by statute, cause the application to become onths after the mailing date of this communication, ever	r a reply be timely filed thirty (30) days will be considered timely. IONTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on				
2a) This action is FINAL.	2b)⊠ This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merit					
closed in accordance with the p	oractice under <i>Ex parte Quayle</i> , 1935 C	J.D. 11, 453 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>1-18</u> is/are pending in	the application.	·			
4a) Of the above claim(s)	_ is/are withdrawn from consideration.				
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-18</u> is/are rejected.					
7) Claim(s) is/are objected					
8) Claim(s) are subject to r	estriction and/or election requirement.				
Application Papers					
9) The specification is objected to	by the Examiner.				
10) The drawing(s) filed on is	s/are: a)□ accepted or b)□ objected t	to by the Examiner.			
	objection to the drawing(s) be held in abey	• • •			
<u> </u>	luding the correction is required if the drawi				
11) Ine oath or declaration is object	ted to by the Examiner. Note the attach	ned Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
a)□ All b)□ Some * c)□ None		. § 119(a)-(d) or (f).			
	iority documents have been received.				
	iority documents have been received in				
•	pies of the priority documents have been reactional Bureau (PCT Rule 17.2(a)).	en received in this National Stage			
	action for a list of the certified copies n	ot received.			
	·				
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Intervie	w Summary (PTO-413)			
2) 🔲 Notice of Draftsperson's Patent Drawing Rev	iew (PTO-948) Paper N	lo(s)/Mail Date			
Information Disclosure Statement(s) (PTO-14 Paper No(s)/Mail Date		of Informal Patent Application (PTO-152)			
Paper No(s)/Mail Date	6) Other: _	·			

Art Unit: 2666

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on November 8, 2004 has been entered.

Response to Arguments

Applicant's arguments filed November 8, 2004, have been fully considered but they are not persuasive.

- 1. Applicant argued that Ostberg must receive a BCCH channel. However, the purpose of the invention of Ostberg is to perform a cell search without receiving the BCCH (col. 4, lines 1-11; col. 6, lines 10-13; col. 9, lines 9-11).
- 2. Applicant argued that correlation and detection of the cell search is not performed in two steps in Ostberg. However, correlation and detection operations are performed in two separate steps (fig. 4, step 420 and step 440).

Claim Rejections - 35 USC § 102

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1-12 and 14-17 are rejected under 35 U.S.C. 102(e) as being anticipated by Ostberg et al. (US 6,504,830).

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- Regarding claims 1, 3, 5, 7, 9 and 14, Ostberg discloses a signal transmitting apparatus (fig. 1A, item 120; abstract, lines 1-4) and receiving apparatus (fig. 1A, item 130). The apparatus has an inherent primary synchronization channel transmitter (fig. 2B, PSC in Perch 1) for placing synchronization information in several slots and an inherent secondary synchronization channel transmitter (fig. 2B, SSC in Perch 2) for having a group specific code at the beginning of each slot (col. 5, lines 44-46; col. 6, lines 63-67; col. 7, lines 1-20) with a specific code (fig. 4, items 420-440) which represents one base station in the group. Correlation and detection operations for a cell search are performed in two separate steps (fig. 4, step 420 and step 440). Mobile stations perform the cell search without receiving the BCCH (col. 4, lines 1-11; col. 6, lines 10-13; col. 9, lines 9-11).
- 4. Regarding claims 2, 4, 6 and 8, the apparatus has a broadcast channel (fig. 3A) that is mapped to the SSC (abstract, lines 6-7; col. 6, lines 22-25 and 30-35).
- 5. Regarding claims 10, 12, 15 and 17, a group specific code detecting unit comprises a correlator for calculating the correlation in each slot (col. 7, lines 46-62) and a base station group detector for determining a base station group using specific codes corresponding to a maxima of correlations detected (col. 7, lines 14-20).
- 6. Regarding claims 11 and 16, the group detector comprises an inherent shift operator for comparing correlations to an inherent comma free code table (col. 8, lines 15-24) and a maximum correlation detector for detecting a synchronization code corresponding to a maximum cyclic shifted correlation (col. 7, lines 14-20).

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 13 and 18 rejected under 35 U.S.C. 103(a) as being unpatentable over Ostberg et al., as applied to claim 12 or 17 above, in further view of Nystrom et al. (US 6,526,091).

Regarding claims 13 and 18, Ostberg discloses using Gold sequences (col. 3, lines 46-49) and does not disclose correlating Hadamard sequences by a Hadamard transformation. Nystrom discloses using a Hadamard sequence instead of a Gold sequence in a multi-user system (col. 10, lines 1-3 and 25-29). Therefore, it would have been obvious to one skilled the art at the time the invention was made to correlate a Hadamard sequence in the invention of Ostberg in order to use a less complex transformation.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Harper whose telephone number is 571-272-3166. The examiner can normally be reached weekdays from 11:30 AM to 8:00 PM ET.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Seema S. Rao, can be reached at 571-272-3174. The centralized fax number for the Patent Office is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

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(EBC) at 866-217-9197 (toll-free).

Kevin C. Harper

December 13, 2004

SEEMA S. RAO 12/13/04 SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800